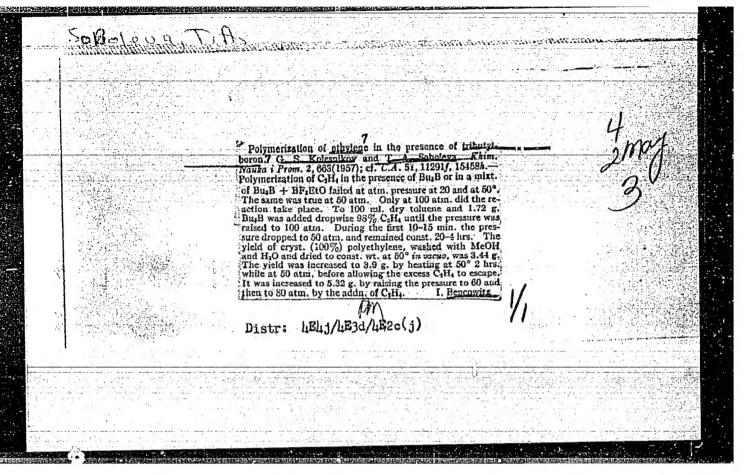
KOLESNIKOV, G.S.; KORSHAK, V.V.; SOBOLEVA, T.A.

High molecular weight compounds. Part 84. Polycondensation of 1,2-dichloroethane with toluene. Izv.AN SSSR Otd.khim.nauk 86 no.6:1096-1099 My '55.

1. Institut elementeerganicheskikh soyedineniy Akademii nauk SSSR. (Ethane) (Teluene)



Soboleva, T. A.

Kolesnikov, G. S., Soboleva, T. A.,

62-2-24/28

AUTHORS:

The Synthesis of the Copolymers of Ethylene (Sintez sopolimerov

Izvestiya AN SSSR Otdeleniye Khimicheskikh Hauk, 1958, Nr 2, TITLE: PERIODICAL:

pp. 242-243 (USSR)

ABSTRACT:

It was already shown in earlier papers that ethylene is synthesized in the presence of tributylboron under a pressure of more than 50 at. excess pressure. It was also already found that tributylboron may serve as a catalyst in the polymerization of acrylnitryl, styrene and methylmetacrylate. In connection with these determinations it was of interest ot determine the possibility of a synthesis with the above-mentioned unsaturated compounds (with the use of tributylboron as a polymerization catalyst). The experiment showed that copolymers of ethylene could be obtained with styrene, methylmetacrylate, acrylnitryl and vinylacetate in the performance of the reactions in toluene in the presence of tributylboron as catalyst of polymerization. (See table) There are 1 table, and 3 Slavic referen-

ces.

Card 1/2

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AUTHORS:

Kolesnikov, G. S., Soboleva, T. A.

.07/62-58-6-17/37

TITLE:

Carbochain Polymers and Copolymers (Karbotsepnyye polimery i sopolimery) Communication 4. Synthesis and Polymerization of the Methyl Ether of 4-Vinyl Benzoic Acid (Soobshcheniye 4. Sintez i polimerizatsiya metilovogo efira 4-vinilbenzoynoy

kisloty)

PERIODICAL:

Izvestiya Akademii nauk SSSR, Otdeleniye khimicheskikh nauk,

1958, Nr 6, pp. 760 - 762 (USSR)

ABSTRACT:

The present paper is a continuation of investigations carried out in the field of the synthesis and polymerization of styrol derivatives which contain substituents in the aromatic core. This paper aims at bringing about the synthetization of methyl-4-vinylbenzoates, and in this connection the influence exercised by the introduction of the ester group into the styrol molecule upon the vitrification temperature of the polymer was to be explained. The synthesis of methyl-4-dibromobenzoate was carried out according to the scheme: 1,4-dibromobenzol-(4-bromophenyl)-methylcarbinol-(4-phenol cyanide)-methylcarbinol-4-vinyl-benzoate. The polymer and the co-polymer (of the synthetized

Card 1/2

Carbochain Polymers and Copolymers. Communication 4. 007/62-58-6-17/37 Synthesis and Polymerization of the Methyl Ether of 4-Vinyl Benzoic Acid

ester) was obtained with methylmetacrylate, and the vitrification temperatures of the polymer and co-polymer were determined.

There are 3 references, 2 of which are Soviet.

ASSOCIATION:

Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR

(Institute of Elemental-organic Compounds AS USSR)

SUBMITTED:

December 7, 1956

1. Methyl ethers--Synthesis 2. Methyl ethers--Polymerization

3. Acrylic resins -- Applications

Card 2/2

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KOLESNIKOV, G.S.; SUPRUN, A.P.; SOBOLEVA, T.A.

Carbon chain polymers and copolymers. Part 14: Copolymerization of ethylene with unsaturated compounds in the presence of horon alkyl compounds. Vysokom.soed. 1 no.4:627-634 Ap '59. (MIRA 12:9)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Boron compounds) (Ethylene) (Polymerization)

81587 5/190/60/002/03/11/01 B020/B066

5.383/

Kolesnikov, G. S., Suprun, A. P., Soboleva, T. A.,

Plate, A. F., Slonimskiy, G. L., Pryanishnikova, M. A.,

Tarasova, G. A.

TITLE:

AUTHORS:

. . . . 1

Polymers and Copolymers With Carbon Chains. XXI. Copolymers

on the Basis of Bicyclo (2,2,1) Heptadiene-2,5 and 1,2,3,4,7,7-Hexachloro Bicyclo (2,2,1) Heptadiene-2,5

PERIODICAL:

Vysokomolekulyarnyye soyedineniya, 1960, Vol. 2, No. 3,

pp. 451-455

TEXT: The authors attempted the polymerization of dissolved bicycloheptadiene and hexachloro bicycloheptadiene in the presence of BF3 and the polymerization of hexachloro bicycloheptadiene in the presence of benzoyl peroxide, tert-butyl peroxide, azoisobutyric acid dinitrile, tri-n-propyl boron, and TiCl4. Hexachloro bicycloheptadiene does not form polymers (Ref. 4). Bicycloheptadiene (Ref. 5) forms polymers in methylene chloride in the presence of BF3 (at -70°, 4 hours) in a 75% yield. The copolymerization of bicycloheptadiene with hexachloro

card 1/4

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Polymers and Copolymers With Carbon Chains. XXI. Copolymers on the Basis of Bicyclo (2,2,1) Heptadiene-2,5 and 1,2,3,4,7,7--Hexachloro Bicyclo (2,2,1) Heptadiene-2,5

s/190/60/002/03/11/014 B020/B066

bicyclopentadiene and other monomers (styrene, vinyl acetate, methyl methacrylate) was studied to clarify the influence of the copolymer composition upon their solubility and thermodynamic properties. The authors synthesized copolymers from equimolecular quantities of dissolved bicycloheptadiene and hexachloro bicycloheptadiene in the presence of BF3 (2 mole%) and in bulk in the presence of benzoyl peroxide and tri-n-propyl boron (0.5 mole%). The results obtained are given in Table 1. The curves of the thermodynamic properties of the copolymers of bicycloheptadiene and hexachloro bicycloheptadiene are presented in Fig. 1. According to an X-ray structural analysis, the resultant copolymers are amorphous. The properties of copolymers from equimolecular quantities of bicycloheptadiene and styrene are also given (Table 2). The results of the copolymerization of equimolecular quantities of bicyclcheptadiene with methyl methacrylate in bulk in the presence of azoisobutyric acid dinitrile, benzoyl peroxide, and tert-butyl peroxide showed that the activity of methyl methacrylate

Card 2/4

CIA-RDP86-00513R001651910005-3" OK RELEASE: 08/25/2000

s/190/60/002/03/ BO20/B066

Polymers and Copolymers With Carbon Chair.s. XXI. Copolymers on the Basis of Bicyclo (2,2,1) Heptadiene-2,5 and 1,2,3,4,7,1 Hexachloro Bicyclo (2,2,1) Heptadiene-2,5

is much higher than that of bicycloheptadiene. The copolymers obtained Is much nigher than that of bicycloneptadiene. The copolymers obtained which is contain a total of about 1 per cent of bicycloheptadiene links, not sufficient for an increase of the thermal stability of nolymethyl contain a total of about 1 per cent of bicycloneptadiene links, which not sufficient for an increase of the thermal stability of polymethyl methacrylate, who curves of the thermodynamic accounting of the methacrylate. not sufficient for an increase of the thermodynamic properties of the methacrylate. The curves of the thermodynamic properties of hierarchylate. methacrylate. The curves of the thermodynamic properties of bicyclocopolymers of bicyclohaptadiene and styrene, as well as of bicyclonew thermodynamic properties of bicyclocopolymers of bicyclohaptadiene and styrene, as well as of bicyclocopolymers of bicyclohaptadiene and styrene, as well as of bicyclocopolymers of bicycloneptadlene and styrene, as well as of bicyclometric copolymers of bicycloneptadlene and styrene, as well as of bicyclometric copolymers of bicycloneptadlene and styrene, as well as of bicyclometric copolymers o neptadiene and vinyl acetate are given in Fig. 2. The latter copolymer was synthesized for the first time. The copolymers of bicycloheptadiene and hexachloro higycloheptadiene with a moler ratio of 70.5. 20.5 are was synthesized for the first time. The copolymers of picycloneptadiene and hexachloro bicycloheptadiene with a molar ratio of 70.5: 29.5 are well soluble in dichloro athere and tolubne and are highly cleatic at was synthesized to the state of Well soluble in dichloro ethane and toluene, and are highly elastic at a glevated temperatures (250 - 3500). The copolymer of bicycloheptadiene and vinvl acetatelic also highly elastic in a wide temperature range. elevated temperatures (2)U - 35U | The copolymer of bicycloneptadien and vinyl acetate his also highly elastic in a wide temperature range and vinyl acetate his also highly elastic in a wide temperature (60 - 3500) There are 2 figures 2 tables and 6 references. and vinyl acetate us also nignly elastic in a wide temperature range (60 = 3500). There are 2 figures, 2 tables, and 6 references: 3 Soviet,

Institut elementoorganicheskikh soyedineniy (Institute of Riemental Compounds) Institut organicheskikh soyedineniy Institut elementoorganicneskikh soyedineniy (institute of Elemental-organic Compounds). Institut organicheskoy khicii Elemental-organic Compounds). (Institute of Organic in. N. D. Zelinskogo AN SSSR (Institute of Organic

2 US, and 1 British. ASSOCIATION:

Polymers and Copolymers With Carbon Chains. XXI. Copolymers on the Basis of Bicyclo (2,2,1) Heptadiene-2,5 and 1,2,3,4,7,7-Hexachloro Bicyclo (2,2,1) Heptadiene-2,5

81587 \$/190/60/002/03/11/011 B020/B066

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Chemistry imeni N. D. Zelinskiy AS USSR)

SUBMITTED:

December 30, 1959

Card 4/4

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KOLESNIKOV, G.S.; SUPRUN, A.P.; SOBOLEVA, T.A.; YERSHOVA, V.A.

Carbochain polymers and copolymers. Part 26: Polymerization and copolymerization of 1,1,2-trichloro-1,3-butadiene.

Vysokom. soed. 2 no.8:1266-1269 Ag *60. (MIRA 13:9)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

(Butadiene) (Polymerization)

AUTHOR: Soboleva, T. A.

Selective Reaction for Thorium and Cerium Jons

Kimini and Cerium Jons

Kimini and Cerium Joss, Kimini and Cerium Joss, Kimini and Cerium Joss, Kimini and Cerium Joss, Joseph Josep

Selective Reaction for Thorium ... S/153/61/004/002/001/003 E111/E552

The precipitate is immediately filtered, washed three to four times with hot saturated potassium-1-2 min with agitation. sulphate solution and then treated on the filter with 1-2 ml of 2N hydrochloric acid, the solution being collected and tested for cerium and thorium. To detect cerium a drop of the solution is placed on filter paper, the spot is moistened with 2N sodium hydroxide solution and gently warmed over a flame. A drop of acetic-acid solution of benzidine applied to the spot gives an intense blue colour if cerium is present. To test for thorium 2-3 drops of 0.1% aqueous thoron solution are added to 1.0 ml of the solution: if thorium is present a red-crimson colour is produced, not dispersed by addition of 3-4 drops of 2N hydro-A blank experiment should be carried out with 1.0 ml of water, to which 5 drops of 2N hydrochloric acid and 2-3 drops of thoron are added. The thoron reaction can also be effected on filter paper (1 drop of solution, 1 drop of thoron solution give a pink spot, not dispersed by 1 drop 2N hydrochloric acid, if thorium is present). concentration of thorium and cerium down to 0.11 mg and 33 γ/ml ,

Card 2/3

SUBCLEVA, T.A.

qualitative detection reaction for beryllium. Izv.vys.ucheb. zav.;ks la.i kaiv.teka. 4 no.3:364-365 '61. (MIRA 14:10)

l. Ural'skiy politekhnicheskiy institut imeni Korova, kafedra fiziko-khimichtekikh metedov analiza. (Beryllium-Analysis)

SOROLEVA, T.A.; SUSLOV, A.P.; IMVLETSHIN, A.A.

Fractional reaction for the lithium ion. Trudy Uralpolitekh.inst.
no.121:67-70 '62. (MIRA 16:5)

(Lithium—Analysis)

SOBOLEVA, T.A.; SUSLOV, A.P.; SAPOGOV, N.V.

Fractional reaction for thorium and uranium ions. Trudy Ural.politekh. inst.no.121671-75 762.

(Thorium-Analysis)

(MIRA 16:5) (Uranium—Analysis)

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s/190/62/004/005/019/026
                                                                    B110/B108
                    Kolesnikov, G. S., Suprun, A. P., Soboleva, T. A., Yershova,
                     Carbochain polymers and copolymers. XXXIX. Copolymerization
                     of 1,1,2-trichlorobute-1,3-diene with other unsaturated
                     V. A., Bondarev, V. B.
    15 4
AUTHORS:
                       Vysokomolekulyarnyye soyedineniya, v. 4, no. 5, 1962,
 TITLE:
                      compounds
   TEXT: Determinations were made of the relative activities of 1,1,2-tri-
    TEXT: Determinations were made of the relative activities of 1,1,2-tri-
chlorobuta-1,3-diene and styrene (10:90; 25:75; 50:50; 75:25; and 90:10)
    chlorobuta-1, j-diene and styrene (10:90; Z): [); JU:JU; [):Z); and yu:10)
and of the composition of their copolymers at low degrees of conversion
of the composition of the relative activities 7 0.07 + 0.03 (at)
    and of the composition of their copolymers at low degrees of conversion (styrene) (5 - 7%). On the basis of the relative activities r<sub>1</sub> = 0.07 ± 0.03 (styrene)
  PERIODICAL:
     and r_2 = 1.18 \pm 0.08 (trichlorobutadiene), the composition of the copolymer
      was plotted versus the composition of the monomer mixture. In order to raise the softening point (~50°C) of polytrichlorobutadiene, 1,1,2-tri-
        card 1/3
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s/190/62/004/005/019/026 B110/B108

Carbochain polymers and copolymers...

chlorobuta-1,3-diene was copolymerized with acrylonitrile, vinyl chloride, and bicyclo-(2,2,1)-hepta-2,5-diene. During bulk copolymerization with acrylonitrile at a ratio of 50:50, only 10 mole% of acrylonitrile radicals was added to the copolymer. Thereupon, copolymerization was also carried out in a water-oil emulsion (1.8:1) with mersolate as an emulsifier, and benzoyl peroxide and ammonium persulfate as initiators. With the use of ammonium persulfate, only trichlorobutadiene homopolymers could be obtained from mixtures of 10 - 80 mole% of trichlorobutadiene and benzoyl peroxide. With acrylonitrile radicals of less than 40 mole%, the copolymer was completely soluble in toluene, while with more than 40 mole%, it was only partially soluble. Extraction of a partially soluble copolymer with toluene gave two fractions: (1) 88% by weight of a white, powder, soluble in toluene and containing 39 mole% of acrylonitrile radicals; (2) a yellow powder, soluble only in dimethyl formamide and containing 65 mole% of acrylonitrile radicals. Either powder possessed a low softening point, but their thermomechanical curves differed considerably. The copolymerization of 1,1,2-trichlorobuta-1,3-diene with vinyl chloride was also carried out in an emulsion, whereby solid lumps and lattices were obtained at the

Card 2/3

\$/0000/63/000/000/0128/0130

ACCESSION NR: AT4020704

AUTHOR: Suprun, A. P.; Soboleva, T. A.; Lopatina, G. P.

TITLE: Polymerization and copolymerization of 3,3,3-trichloropropene

SOURCE: Karbotsepnykye vyksokomolekulyarnykye soyedineniya (Carbon-chain macro-molecular compounds); sbornik statey. Moscow, Izd-vo AN SSSR, 1963, 128-130

TOPIC TAGS: block polymerization, copolymerization, trichloropropene, polytrichloropropene, methyl methacrylate, benzoyl peroxide, vinyl acetate, styrene, acrylonitrile

ABSTRACT: The effect of temperature and reaction time on the block polymerization of 3,3,3-trichlorpropene was investigated and the thermomechanical properties of the polymer were studied. Copolymers of 3,3,3-trichloropropene with methyl methacrylate, vinyl acetate, styrene and acrylonitrile were also obtained by block polymerization. The reaction was carried out with 0.5 mol.% benzoyl peroxide under the influence of x-irradiation at different temperatures, the maximum yield being obtained at 70C. At 100C, the yield decreased. The experimental data are tabulated. "The authors would like to thank B. L. Tsetlin for carrying out the radiation polymerization." Orig. art. has: I figure and 2 tables.

Card 1/2

ACCESSION NR: AT4020704

ASSOCIATION: Institut elementoorganicheskikh soyedineniy AN SSSR (Institute of

Organometallic Compounds, AN SSSR)

SUBMITTED: 29Apr62

DATE ACQ: 20Mar64

ENCL: 00

SUB CODE: OC

NO REF SOV: 006

OTHER: 002

Card 2/2

S/190/63/005/004/003/020 B101/B220

AUTHORS: Soboleva, T.

Soboleva, T. A., Suprun, A. P., Kolesnikov, G. S.

TITLE:

Carbochain polymers and copolymers. XLIV. tudy of the effect of various factors on the polymerization of 1,1,2-tri-

chloro-1,3-butadiene

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 5, no. 4, 1963, 487-491

TEXT: The effects of the nature and concentration of the initiator, the temperature and the reaction time were studied as to yield and molecular weight of the polymer obtained by mass polymerization of 1,1,2-trichloro-weight of the polymer obtained by mass polymerization of 1,1,2-trichloro-weight of the polymer obtained by mass polymerization of 1,1,2-trichloro-weight of the polymer obtained with a reaction time of 230 min 1,3-butadiene. Results: (1) At 80°C and with a reaction time of 230 min initiator concentration of 0.5 mole% the following yields (%) and and an initiator concentration with benzoyl intrinsic viscosities in benzene at 25°C (dl/g) were obtained: with benzoyl intrinsic viscosities at 29.5, 0.30; with textperoxide 88.5, 0.39; with azoisobutyric dinitrile 75.5, 0.30; with tributyl peroxide 28.5, 0.19; with cumene hydroperoxide 29.5, 0.30; with tributyl peroxide 28.5, 0.19; with cumene hydroperoxide 29.5, 0.30; with tributyl peroxide 28.5, 0.17; and without initiator 21.5, 0.33. (2) The n-propyl boron 24.0, 0.17; and without initiator 21.5, 0.33. (2) The n-propyl boron 24.0, 0.17; and without initiator concentrations oxide at 80°C and 230 min reaction time. The initiator concentrations oxide at 80°C and 230 min reaction time. The initiator concentrations (mole%), yields (%) and intrinsic viscosities (dl/g) are given: 0.1, 45.5, (mole%), yields (%) and intrinsic viscosities (dl/g) are given: 0.1, 45.5,

S/190/63/005/004/003/020 B101/B220

Carbochain polymers and ...

0.23; 0.5, 88.5, 0.39; 1.5, 99.5, 0.20. (3) The polymer yield with 0.5 mole% benzoyl peroxide and 230 min reaction time increases from 1 % at 25°C to 96 % at 100°C. (4) Under equal conditions the intrinsic viscosity was ~0.5 at 25°C and ~0.1 at 40°C. (5) With 0.5 mole% benzoyl peroxide at 80°C the polymer yield was 30 % after 60 min and almost 100 % after 300 min reaction time. The intrinsic viscosity increased rapidly during the first 60 min but thereafter very slowly. (6) The following optimum values are given: 0.5 % benzoyl peroxide, 80°C, 360 min. The properties of the polymer thus obtained are: yield 99.9 %; intrinsic viscosity 0.43 dl/g; m.w. 71,000; specific weight 1.44; softening point +50°C. (7) It is evident from the IR spectrum of 1,1,2-trichloro-1,3-butadiene and its polymer that the polymer has a considerable number of CH₂ and CH groups at the double bond; this makes a further study of the mechanism of this reaction desirable. There are 4 figures and 3 tables.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy AN SSSR (In-

stitute of Elemental Organic Compounds of AS USSR)

SUBMITTED:

September 9, 1961

Card 2/2

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001651910005-3

Pauly/Pruly/Pruly AFFTC/ASD IPR (SWP 1) (SPF) 11 (SWP(2) /SDS 8/0190/63/005/005/0639/0643 I. 13544-53 ACCESSION NR: AP3000686 Soboleve, T. A.; Suprun, A. P.; Kolesnikov, G. S. TITLE: Carbon-chain polymers and copolymers. 46. The influence of various factors on the emulsion polymerization of 1,1,2-trichlorobuta-1,3-diene SOURCE: Vy*sokomolekulyarny*ye soyedineniya, v. 5, no. 5, 1963, 639-643 TOPIC TAGS: carbon-chain polymers, emulsion polymerization, trichlorobutadiene, initiator, emulsifier ABSTRACT: The present work is a continuation of an earlier investigation by the authors, with the difference that there the 1,1,2-trichlorobuta-1,3-diene was in bulk. In the present work a study was made of the ratio of phases, nature, and concentration of initiator, reaction temperature, reaction time, and emulsifier concentration in relation to the yields and molecular weights of the resultant polymers. The experiments were conducted in sealed, evacuated ampules. A maximum yield of polytrichlorobutadiene was obtained at a ratio of the aqueous to the oily phase of 1.8/1, with a concentration of the initiator (potassium persulfate) of 0.17 Mol%, at a temperature of 50C, a reaction time of approximately 5 hours, and with 1% of the emulsifier used. Under the above optimal conditions for the initiator, phase ratio, and temperature, and with an almost double concentration of

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emulsifier and reaction weight was obtained, at the process of polymer 3 tables and 3 figures ASSOCIATION: Institut	on time, a po	conducted of	n bulk mai	terial. (lier work rig. art.	where has:	
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SOBOLEVA, T.A.; SUPRUN, A.P.; PAVLOVA, S.A.

Polydispersity of polymers of 1,1,2-trichloro-1,3-butadiene.

Vysokom. soed. 6 no.1:89-91 Ja'64. (MIRA 17:5)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

PAVLOVA, S.A.; SOBOLEVA, T.A.; SUPRUN, A.P.

Viscosity and molecular weight of polytrichlorobutadiene.

Vyskom. soed. 6 no.1:122-124 Ja'64. (MIRA 17:5)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

ACCESSION NR: AP4032573

3/0190/64/006/004/0726/0728

AUTHORS: Suprun, A. P.; Soboleva, T. A.; Lopatina, G. P.

TITLE: Polymerization of 3,3,3-trichloropropene under pressure

SOURCE: Vywsokomolek. soyedin., v. 6, no. 4, 1964, 726-728

TOPIC TAGS: methyl ethylene, propene, trichloropropene, trichloropropene polymerization, pressure polymerization, benzoyl peroxide initiator, radical polymerization mechanism, polytrichloropropene, polytrichloropropene thermomechanical property

ABSTRACT: Polymerization of 3,3,3-trichloropropene was conducted in special lead ampules placed in a high-pressure reactor. It was found that in the presence of 0.6 mole/% of benzoyl peroxide as initiator and at a temperature of 500 a yield of polytrichloropropene of 5, 19, and 31% respectively was obtained after 6 hours under 3000, 6000, and 7000 atmospheres. Without initiator, the yield of the polymer under 6000 atm at 500 and after 12 hours was only 1%. In the presence of 1 and 3 mole/% of the initiator it reached 50 and 75% respectively. The polymer was soluble in benzene, toluene, xylene, nitrobenzene, chloroform, carbon tetrachloride.

Card 1/2

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ACCESSION NR: AP4032573

trichloroethylene and anisole. It had a molecular weight of 3500, an amorphous structure with small crystalline inclusions, and a softening point at 50C. The authors state that in the presence of benzoyl peroxide (without pressure application) the molecular weight of the resulting polytrichloropropene averages 1200, with 15% of it as high as 16 000. The high-molecular fraction differs in solubility and other properties from the main mass. Trichloropropene does not polymerize under normal pressure in the presence of 0.6 mole/% of initiator. Orig. art. has: 2 tables and 2 charts.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy AN SSSR (Institute of Organoelemental Compounds, AN SSSR)

SUBMITTED: 24May63

DATE ACQ: 11Hay64

ENCL: 00

SUB CODE: CH

NO REF SOVI. 002

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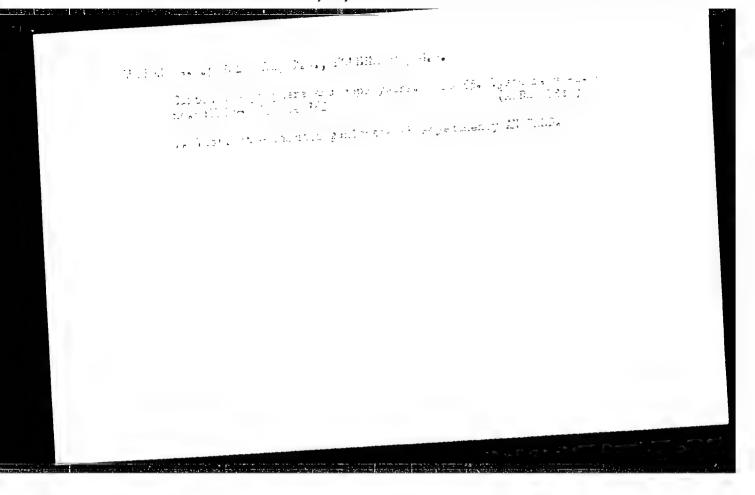
Card 2/2

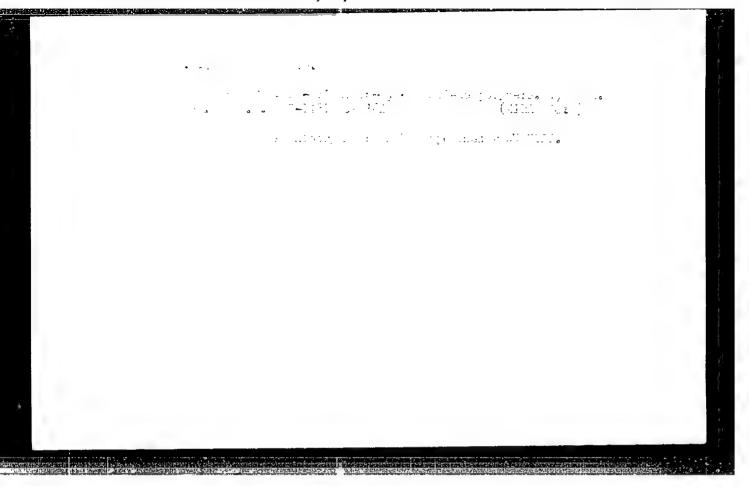
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	L 41150-65 ENG(j)/EPA(s)-2/ENT(m)/EPF(o)/EPR/ENP(j)/T/ENA(h)/ENA(1) Pc-4/ Pr-4/Ps-4/Pt-10/Peb RPL WW/GS/RM 8/0000/64/000/00042/0045 56
	A TON A TON A TON A TONIE TO THE TONIE TO TH
₹.	AUTHOR: Freydlina, R.Kh.; Kolesnikov, G.S.; Slonimskiy, G.L.; Suprun, A.P.; Soboleva, T.A.; Belyavskiy, A.B.; Yershova, V.A. TITLE: New chlorinated monomers for the synthesis of noncombustible polymers
	SOURCE: AN SSSR. Institut neftekhimicheskogo sinteza. Sintez i svoystva monomera. (The synthesis and properties of monomers). Moscow, Izd-vo Nauka, 1964, 42-45
	chloroalkene polymerization, betseen
	ABSTRACT: 3,3,3-Trichloropropene and 1,1,2-trichloro-1,3-butadiene, which have been described in previously published studies, were prepared by a two-step reaction and their described in previously published studies, were prepared by a two-step reaction and their described in previously published studies, were prepared by a two-step reaction and their described in previously published studies, were prepared by a two-step reaction and their described in previously published studies, were prepared by a two-step reaction and their described in previously published studies, were prepared by a two-step reaction and their described in previously published studies, were prepared by a two-step reaction and their described in previously published studies, were prepared by a two-step reaction and their described in previously published studies, were prepared by a two-step reaction and their described in previously published studies, were prepared by a two-step reaction and their described in previously published studies, were prepared by a two-step reaction and their described in previously published studies, were prepared by a two-step reaction and their described in previously published studies, were prepared by a two-step reaction and their described in previously published studies, were prepared by a two-step reaction and their described in previously published studies, were prepared by a two-step reaction and their described in previously published studies, were prepared by a two-step reaction and their described in previously published studies, were prepared by a two-step reaction and their described in previously published studies, were prepared by a two-step reaction and their described in previously published studies, were prepared by a two-step reaction and their described in previously published studies, were prepared by a two-step reaction and their described in previously published studies, were prepared by a two-step reaction and their described in previously published studies, were prepared by a two-step r
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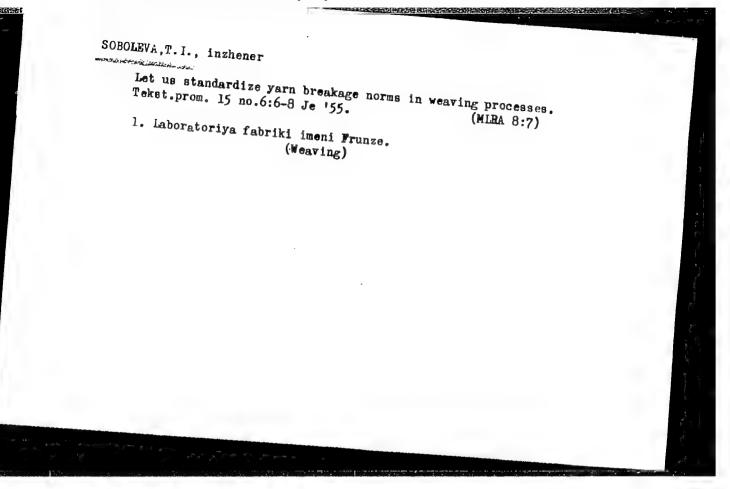
L 41150-65 ACCESSION NR: AT5002110

was also formed by isomerization during the block polymerization of 3,3,3-trichloropropene with benzoyl peroxide, and isomerization decreased the yield of solid polymer from 6.1% at 70C to 0.2% at 100C. A viscous, low-molecular, liquid polymer was also formed. Salid polymer was also formed in 37.3% yield in 160 hours under irradiation, and fractionated into soluble polymer and a fraction which was soluble only in tetrahydrofuran or hot benzene. Copolymers which are not described, were formed with methyl methacrylate, styrene, vinyl acetate, and acrylonitrile. By a similar technique, 1,1,2-trichloro-1,3butadiene was prepared via 1,1,2,4-tetrachloro-1-butene, formed in 20% yield with byproducts by telomerization of ethylene with tetrachloroethylene, and by dehydrohalogenation. The copolymerization of 1,1,2-trichloro-1,3-butadine has been described in published papers, and its homopolymerization under undefined optimal conditions yielded 99.9% block polymer (110,000 molecular weight), or 95.2% yields in emulsion polymerization with polymers of 3,500,000 molecular weight. The monomer was shown to have markedly higher activity than styrene, and the polymers showed good solubility, resistance to cold inorganic acids, high tensile strength, and adhesion to various materials. "The authors thank B.L. Tactlin for carrying out the irradiction-polymerization tests." Orig. art. has: 1 table and 4 formulas.

2/3 Card







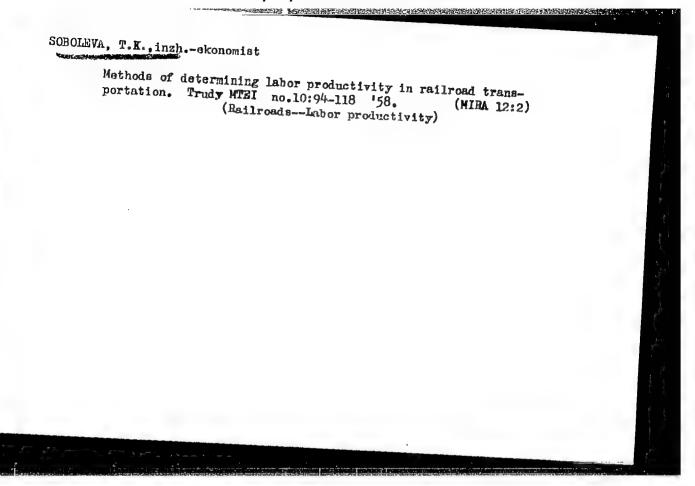
GRIF, V.G.; SOBOLEVA, T.I.

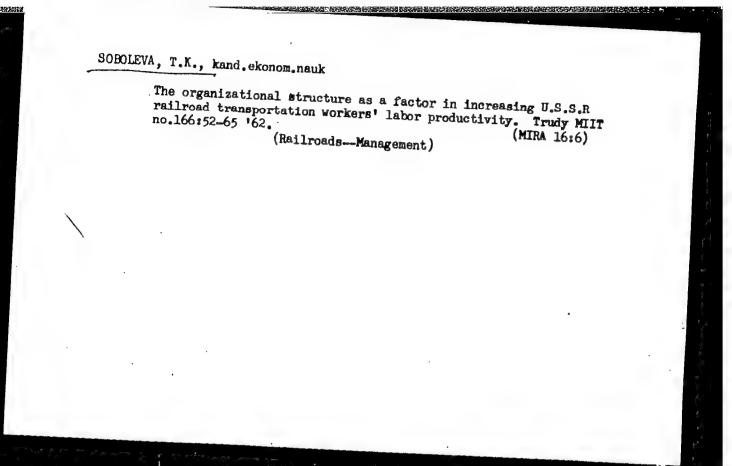
Changes in the chromosome morphology caused by the effect of environmental conditions. Bot. zhur. 50 no.1:109-112 Ja 165.

1. Botanicheskiy institut imeni Komarova AN SSSR, Leningrad. (MIRA 18:3)

Methods of determining labor productivity on the lower levels of railroad transportation. Trudy MTEI no.7:88-97 57. (MIRA 11:5)

(Bailroads—Employees) (Labor productivity)





SHCHERBAKOV, I.M., dots., LISOVSKAYA, N.D., SOBCLEVA, T.I.

Etiopathogenetic treatment of pscriasis, lupus erythematosus, and some other skin diseases presumably of viral origin. Trudy LMI (MIRA 11:2)

1. Kafedra kozhnykh bolezney (zav. - deystvitel*nyy chlen AMN SSSR prof. O.N. Podvycotckaya) Pervogo Leningradskogo meditsinskogo (skin-Diseases) (virus--Diseases)

SOBOLEVA, T.L.

Case of cured acute pemphigus. Vest.ven. i derm. no.3:53-54 My-Je 156

1. Iz kliniki kozhnykh i venericheskikh bolezney I Leningradskogo
meditsinskogo instituta.

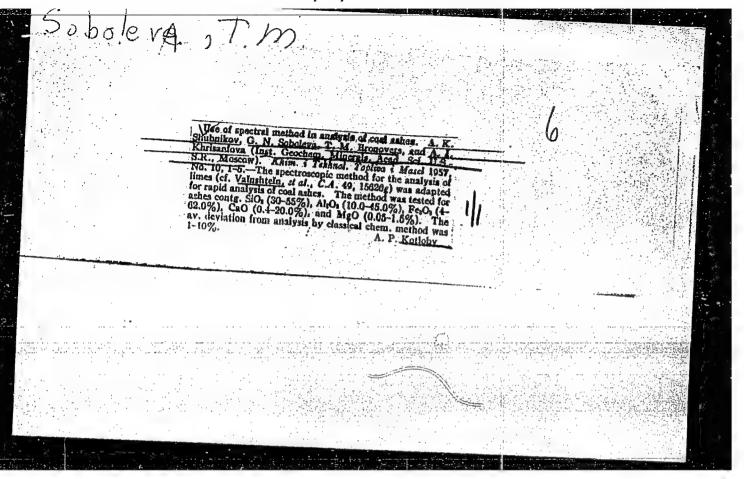
 ∂_{z}^{α}

(PEMPHIGUS)

SOBOLEVA, T.L.; KOGAN, S.I.

Mental disorders in systemic lupus erythematosus and their treatment. Vop. psikh. i nevr. no.9:240-249 162.

1. Kafedra kozhnykh bolezney (zav. - prof. A.N. Araviyskiy) i kafedra psikhiatrii (zav. - prof. D.S. Ozeretskovskiy) l-go Leningradskogo meditsinskogo instituta imeni akademika Pavlova.



SOBOLEVA, T. M. Cand Tech Sci -- (diss) "Rational method of cleaning and grading of seeds of scrub-wood species." Mos,1957.

20 pp. with illustrations. (Min of Higher Education USSR. Mos Forestry Engineering Inst.) 120 copies.

(KL, 8-58, 106)

-34-

USSR / Forestry. Forest Cultures.

K

Abs Jour

: Hef Zhur - Biologiya, No 18, 1958, No. 82212

Author

: Soboleva, T. M.

Inst

: High School of Forest Engineering

Title

: Physical-Mochanical Properties of Fcrost Seeds as the Basis of Efficient Tochnological Cleaning and Sorting

Orig Pub

: Nauchn. dokl. vyssh. shkoly. lesoinzh. delo, 1958, No 1,

Abstract

: No abstract given

Card 1/1

FRENKEL', Z.G., prof.; BEN, Ye.E., prof.; SOBOLEVA, T.S., dotsent (Leningrad)

Toward a fifth revision of the Soviet nomenclature of diseases. Vrach.

delo no.5:521 My '59.

(MIRA 12:12)

1. Deystvitel'nyy chlen AMN SESR (for Frenkel').

(NOSOLOGY)

FRENKEL', Z.G., prof.; SOBOLEVA, T.S., dotsent

"Statistical Yearbook of the German Democratic Republic, 1959". Reviewed by Z.G.Frenkel', T.S.Soboleva. Gig. i san. no.5:116-118 My '61. (MIRA 16:4)

FRENKEL', Z.G.; SOBOLEVA, T.S., dotsent (Leningrad)

Population of Finland as revealed by data on hygiene and demography. Sov. zdrav. 20 no.8:91-96 '61. (MIRA 15:1)

1. Deystvitel'nyy chlen AMN SSSR (for Frenkel'). (FINLAND_VITAL STATISTICS)

FRENKEL', Z.G., prof.; SOBOLEVA, T.S., dotsent

"Statistical Yearbook of the People's Republic of Bulgaria, 1959."
Reviewed by Z.G.Frenkel', T.S.Soboleva. Gig. i san. 26 no.5:118-120
My '61.

(MIRA 15:4)

1. Deystvitel'nyy chlen AMN SSSR (for Frenkel');
(BULGARIA--YEARBOOKS)

"Statistical Yearbook of the Czechoslovak Republic." Reviewed by Z.G.Frenkel', T.S.Soboleva. Gig. i san. 26 no.6;114-116 Je '61.

(CZECHOSLOVAKIA—YEARBOOKS)

(CZECHOSLOVAKIA—YEARBOOKS)

FRENKEL', Z.G., prof.; SOBOLEVA, T.S., dotsent

"Concise statistical collection of the Rumanian People's Republic."
Reviewed by Z.G.Frenkel', T.S.Soboleva. Gig. i san. 26 no.8:115-116
Ag '61.

(MIRA 15:4)

(RUMANIA-VITAL STATISTICS)

L 24170-66 ACC NR: AP6015183 SOURCE CODE: UR/0210/65/000/002/0121/0122 REVIEWER: Frenkel, Z.G. (Professor; Active member AMN SSSR); Soboleva, T.S. (Docent) ORG: none TITLE: Review of book by B. Ts. Urlanis entitled Birth Rate and Life Expectancy in the USSR! (Rozhdayemost! i prodolzhitel!nost! zhizni v SSSR), TaSU SSSR, Moscow, 1963, 136 pages SOURCE: Gigiyena i sanitariya, no. 2, 1965, 121-122 ፈ TOPIC TAGS: social problem, anthropology 8 ABSTRACT: In the preface of the book, the author discusses the socialist law of population, as distinguished from the law of population under capitalism. And indeed, in the socialist transformation of society, especially in the initial period, the mortality index does drop faster than the birth rate. But with the more active participation of women in the work of society the birth rate will not increase but should drop from 35-45 to 17-22 per 1000. And with the rise in average life expectancy and inorease in the size of older age groups the mortality rate will rise to 9-12 or even 14 per 1000. The national population increase will not therefore rise but will fall, as has occurred in Czechoslovakia and other socialist countries. The reviewers list a number of less important factual errors and errors in interpre-Card UDC: 312.1+312.287(470)

tation in the r	is occant	ion that it all the	y note substantial and graphs. Final	LY, they cri-	/
tion con	ectanoy hatradicts	as been uniform for both the complete	and graphs. Final SSR the addition of all age groups. mortality table of 159 and the Marxist element of life.	r years of This asser- f the Cen-	
SUB CODE		M DATE: none	The state of the s		
ard 2/2 F	2/				

SCEOLEVA, V. A.; PAVLOV, S. Ye. (Deceased)

"Investigation of the Causes of Pitting of Aluminum Tap Water," <u>Korroziya i azshchita metallov</u> (Corrosion and Protection of Metals), Moscow, Obornogiz,

PURPOSE: This book is intended for engineering, technical, and scientific personnel at industrial plants, research institutes, and design offices working in the field of corrosion-protection of stainless steel, high-strength structural steel, and light alloys.

SOV/137-58-10-21312

Translation from; Referativnyy zhurnal, Metallurgiya, 1958, Nr 10, p 124 (USSR)

AUTHORS: Pavlov, S. Ye., Soboleva, V. A.

TITLE: Investigation of the Causes of Tuberculation of Aluminum in Tap

Water (Issledovaniye prichin tochechnoy korrozii alyuminiya v vodoprovodnoy vode)

PERIODICAL: V sb.; korroziya i zashchita metallov. Moscow, Oborongiz, 1957, pp 236-259

ADSTRACT: Investigations of the corrosion behavior of grade ADI, AD (from various plants), A00 and A000 sheet Al in tap water showed that the tendency towards tuberculation (T) decreases with an increase in the purity of the metal but is not completely eliminated even in A000. T of Al begins at a pH close to neutral. Upon an increase in pH the probability of the occurrence of corrosion decreases while its rate increases. T originates at points where a disruption of continuity of the oxide film occurs

near insoluble intermetallic intrusions which act as cathodes (for example FeAl3). The susceptibility of sheet Al to T is considerably decreased upon its alloying with 0.5% Mg, 0.5%

Card 1/2 Mg + 0.5% Mn, or 0.2% Ti. The tendency of sheet Al towards

SOV/137-58-10-21312

Investigation of the Causes of Tuberculation (cont.)

T can be eliminated by boiling it for 30 min in distilled or previously boiled tap water.

1. Aluminum--Corrosion 2. Hydrogen ion concentration--Corrosive L. A. effects

Card 2/2

CIA-RDP86-00513R001651910005-3

Z

Country: USSR

Category: Virology. Bacterial Viruses (Phages)

Abs Jour: Ref Zhur-Biol., No 23, 1958, No 105467.

Author : Bystryy, N.F.; Togoladze, Z. D.; Soboleva, V. A.

Inst

Title : Methods of Preparing Dry Lyophilic Bacteriophage.

Orig Pub: Sb. Bekteriofagiya. Tbilisi. Gruzmedgiz, 1957,

145-154.

Abstract: Dysentery phages prepared on Martin's or Hottinger's

bouillon and desiccated by the lyophilic method in a Dolinov collector apparatus maintain their activity well for over two years. The dry preparation obtained in readily soluble in water. For the purpose of improving the teste qualities of the phage it was suggested that it be prepared on synthetic medium (the

Card : 1/2

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E

Country: USSR

Category: Virology. Bacterial Viruses (Phages)

Abs Jour: Ref Zhur-Biol., No 23, 1958, No 103516

Author : Bystryy, N.F.; Soboleva, V. A.

Inst :

Title : The Characteristics of Wound Acrobic Phages

Orag Pub: Sb. Bakteriofagiya. Tbilisi, Gruzmedgiz, 1957,

379-385

Abstract: From sewage and material taken from the pharyng

of patients with scarlet fever and from the pus of patients phages for streptococci and staphylococci were isolated. After several passages the staphylococcic phages showed not only an increase in titer but also an expansion of the spectrum of lytic action.

Card : 1/2

SOBOLKEVA, V. D.

29930

Kliniko-ryentgygnologichyeskiye nablyudyeniya nad izmyenyeniyami v lyegkikh pri koklyushye. Pyediatriya, 1949, No 4, s. 40-45.--Bibliogr: s. 45

SO: LETOPIS' NO. 40

Administrative and the second Sebenzia, V. D. 183270 USSR/Medicine - Infectious Diseases Mar/Apr 51 "Peculiarities of the Course of Influenza in Chiliren Infected With Whooping Cough," V. D. Soboleva, Infectious Diseases Dept, Inst of Pediatry, Acad Med Sci USSR, Hosp imeni Rusakov "Pediatriya" No 2, pp 24-29 Describes very severe course of the disease in children infected with both influenza and whooping cough. 183T70

SOBOLEVA, V. D.

Whooping Cough

Whooping cough and measures for its control in children's institutions. Med. sestra no. 4, 1952.

Monthly List of Russian Accessions Library of Congress, November 1952. UNCLASSIFIED.

SOBOLEVA V.D

Progress in the treatment of whooping cough in children. Fel'dsher & skush. no.5:23-28 Kay 1953. (CLML 25:1)

1. Candidate Medical Sciences. 2. Moscow.

Feb 53 V. D. atry, stran in infancs d with of the 247T27 ratem usu- cardio-	1	
USSR/Medicine - Influenza Feb 53 "Whooping Cough Complicated by Influenza," v. D. Soboleva, Div of Inf Diseases, Inst of Pediatry, Acad Med Sci USSR Sovetskaya Meditsina, Vol 17, No 2, pp 10-13 The clinical course of influenza in infants who are infected with whooping cough is more severe than in those infants in whom the influenza is not aggravate by any other disease. Influenza infection in infant under one year of age, who are also affected with whooping cough, is dangerous. Involvement of the amooping cough, is dangerous. Involvement of the lally leads to cardiovascular disorders. The nortality rate among infants is high when the cardiovascular system is affected.	ጉድሚ ካሪ	The state of the s

SOBOLEVA, V.D.

Certain achievements in the study of whooping cough and further prospects for its control. Pediatriia no.4:40-46 Jl-Ag '54. (MLRA 7:10)

1. Iz infektsionnogo otdela (nauchnyy rukovoditel' chlen-korrespondent AMN SSSR prof. A.I.Dobrokhotova) Instituta pediatrii AMN SSSR (dir. prof. M.N.Kazantseva) na baze 2-y klinicheskoy bol'nitsy imeni Rusakova (glavnyy vrach zasluzhennyy vrach RSFSR dotsent V.A.Kruzhkov. (WHOOPING COUGH, prevention and control.)

SOBOLEVA, V. D., Doc Med Sci -- (diss) "Affliction of the respiratory organs in children with whooping cough. Clinical-roentgenological and experimental research." Moscow, 1960. 22 pp; (Academy of Medical Sciences USSR); 300 copies; price not given; list of authors' works at end of text (18 entries); (KL, 31-60, 143)

SOBOLEVA, V.D., kand.med.nauk

Features of lesions of the respiratory organs in whooping cough. Vest.AMN SSSR 15 no.3:33-38 '60. (MIRA 14:5)

1. Institut pediatrii AMN SSSR i Detskaya klinicheskaya bol'nitsa No.2 imeni Rusakova. (WHOOPING COUGH) (RESPIRATORY ORGANS--DISEASES)

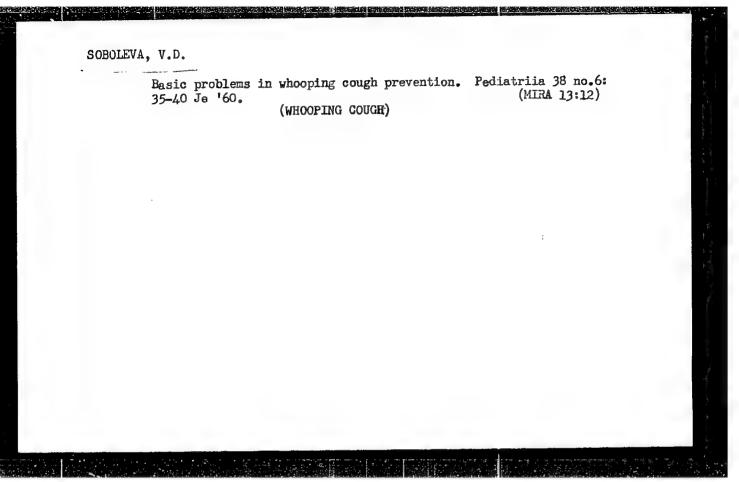
SOBOLEVA, V.D.

warming the State State

Experience in the active detection of patients with Botkin's disease under polyclinical conditions. Sov. med. 24 no. 2:120-125 F '60. (MIRA 14:2)

l. Iz laboratorii deystvitel'nogo chlena AMN SSSR prof. Ye.M.
Tareyeva i sanitarno-epidemiologicheskoy stantsii Rizhskogo
rayona Moskvy (glavnyy vrach A.A. Nelyubov).

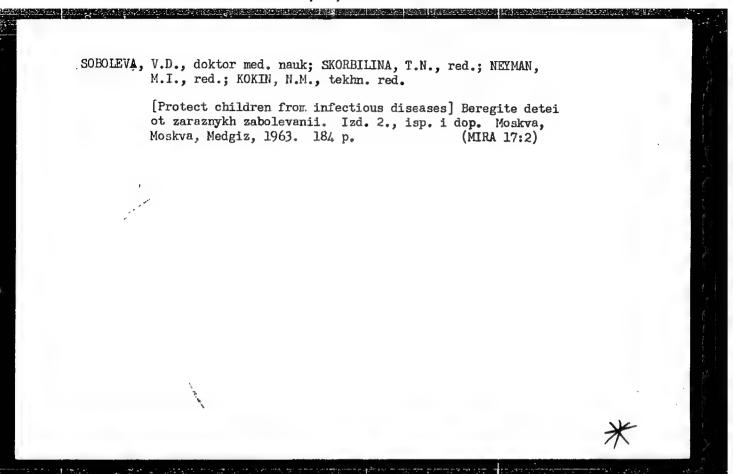
(HEPATITIS, INFECTIOUS) (ALDOLASE)



SOBOLEVA, V.D., red.; DMITRIYEVA, N.M., red.; SENCHILO, K.K., tekhn. red.

[Problems of whooping cough]Problemy kokliusha. Pod red. V.D.Sobolevoi. Moskva, Medgiz, 1961. 133 p. (MIRA 15:10)

1. Akademiya meditsinskikh nauk SSSR, Moscow. (WHOOPING COUGH)



Effect of 7-globulin on the change of aldolase activity in those in contact with a focus of Botkin's disease. Sov. Med. 27 no.7:105-110 J1'63. (MIRA 16:9)

1. Iz gruppy deystvitel'nogo chlena AMN SSSR prof. Ye.M. Tarayeva. (HEPATITIS, INFECTIOUS) (GAMMA GLOBULIN) (AIDOLASE)

SOBOLEVA, V.D.

Course of the infectious process among contacts based on data of the aldolase test and the epidemiological analysis of Botkin's disease in its foci. Vop.med.virus. no.9:187-192 '64. (MIRA 18:4)

1. Iz laboratorii deystvitel nogo chlena AMN SSSR prof. Ye.M. Tareyeva.

SOBOLEVA, V.E., doktor med. nauk; Kedelikova, v.L.

Adenoviral infections in children. Sov. med. 27 no.2:93-96
F 164.

1. Institut pediatrii (dir. - dotsent M.Ya. Studenikin) AMS
SSSR, Moskva.

A the street of the street of

SOBOLETA, V.D., doktor melansuk; FOPOVA, L.A., kand.med.nsuk lesion of respiratory organs and cardiovascular system in children

with influenza. Sov. med. 28 no.7:50-56 31 164. (MIRA 18:8)

1. Infektslonnaya klinika (zaw. - prof. S.D.Nosov) Instituta pediatrii (dir. - dotseni M Ma.Studenikin) AMN SSSR, Moskva.

KHOLODOVSKAYA, R.S.; MABYRINA, K.I.; SPIVAK, M.M.; Prinimala uchastiye SOBOLLVA, V.G.

Synthesis of terepathalic polyesters and their use as a base for the production of impregnation lacquers for electric insulation materials. Lakokras.mat. i ikh prim. no.3:12-16 163. (MIRA 16:9) (Terepathalic acid) (Protective coatings) (Electric insulators and insulation)

SOBOLEVA, V.I.; ANICHKOV, N., akademik.

Effect of wrethane upon the resistance to anemia of the central nervous system of frogs. Izv.aN SSSR, Ser.biol. no.3:74-81 My-Je '53. (MLRA 6:6)

1. Laboratoriya eksperimental'noy fiziologii po ozhivleniyu organizma akademii meditsinskikh nauk SSSR. (Anemia) (Nervous system) (Urethanes) (Ca 47 no.16:8251 '53)

SCUCLE IA. 11.

Summaries of papers presented at the XXVI Congress of Surgions of the USSR, Moscow, 20 - 27 January 1955, included:

The Resistance of the Heart and Central Nervous System under Conditions of Artificial Hypothermia.

V. A. NEGOVSKY and V. I. SOBOLEVA

BOURCE: A-h6013 (Official Publication) Unclassified.

Hypothermic technique in the restoration of vital functions of the organism after prolonged periods of clinical death.(experimental research) Khirirgiia, no.9:22-26 S '55. (MIRA 9:2)

1. Iz laboratorii eksperimental'noy fiziologii po ozhivleniyu organizma (zav.-prof. V.A. Negovskiy) AMN SSSR)

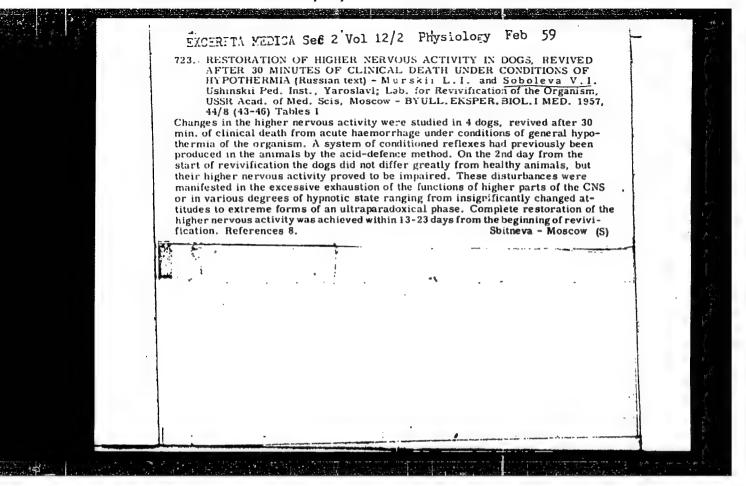
(BODY TEMPERATURE hypothermia, exper., restoration of vital funct.)

3000LEVI. V. I.

Soupleva, V. I. "Extinction and restoration of the life functions of the organism in lethal poisoning with carbon monoxides (experimental investigation)." Inst of Higher Nervous Activity, Acad Sci USSR. Moscow, 1956. (Dissertation for the Degree of Candidate in Medical Science)

So: Knizhneya letopis!, No. 27, 1956. Moseow. Pages 94-109; 111.

```
NEGOVSKIY, V.A. (Moskva); SOBOLEVA, V.I. (Moskva)
        Dynamics of extinction and restoration of vital function of the organism
        following fatal exsanguination in hypothermia. Arkh.pat. 18 no.6:58-70
        156.
                                                          (MLRA 9:12)
        1. Iz laboratorii eksperimental'noy fiziologii po ozhivleniyu organiz-
        ma (zav. - prof. V.A. Negovskiy) AMN SSSR.
              (HYPOTHERMIA, experimental,
                  extinction & restoration of vital funct. in exanguination
                  (Rus))
              (HEMORRHAGE, experimental,
                 extinction & restoration of vital funct. in exanguination
                  (Rus))
              (DEATH.
                 same)
```



SCHOLEVA. V.I. (Moskva)

Restoration of vital functions in acute carbon monoxide poisoning [with summary in English]. Pat.fiziol. i eksp.terap. 1 no.1:12-19 Ja-F '58. (MIRA 12:1)

1. Iz laboratorii eksperimental noy fiziologii po ozhivleniyu organizma (zav. - prof. V.A. Negovskiy) AMN SSSR.

(GARBON MONOXIDE, pois.

resuscitation, technic)
(RESUSCITATION,
in carbon monoxide pois.)

NEGOVSKIY, V.A.; GURVICH, A.M.; SOBOLEVA, V.I. (Moskva)

Reflect of hypothermia of various depths on the electroencephalogram in dogs during dying from acute hemorrhage with consecutive restoration of life functions. Pat.fiziol. i eksp.terap. 3 no.5:33-41 S-0 '59.

(MIRA 13:3)

1. Iz laboratorii eksperimental'noy fiziologii po ozhivleniyu organizma (zaveduyushchiy - prof. V.A. Negovskiy) AMN SSSR.

(HYPOTHERMIA, INDUCED eff.)

(ELECTROENCEPHALOGRAPHI)

(RESUSCITATION)

(DEATH)

NEGOVSKIY, V.A.; SOBOLEVA, V.I.

Hibernation as a therapeutic method in terminal states. Farm. i toks. 22 no.2:172-175 Mr-Ap '59. (MIRA 12:6)

1. Laboratoriya eksperimental noy fiziologii po ozhivleniyu organizma (zav. - prof. V.A.Negovskiy) AMN SSSR.
(HIBERNATION, ARTIFICIAL,

lytic cocktail in exper. resuscitation (Rus))
(RESUSCITATION,
same)

NEGOVSKIY, V.A.; SOBOLEVA, V.I.; GURVICH, N.L.; KISELEVA, K.S.; MACHAVARIANI, Sh.S.

Restoration of vital function in monkeys after mortal examguination under hypothermic conditions. Biul.eksp.biol.i med. 48 no.11:30-34 N '59. (MIRA 13:5)

1. Iz laboratorii eksperimental'noy fiziologii po ozhivleniyu organizma (zav. - prof. V.A. Negovskiy) AMN SSSR, Moskva, i Instituta eksperimental'noy patologii i terapii (dir. - doktor biologicheskikh nauk I.A. Utkin), Sukhumi. Predstavlena deystvitel'nym chlenom AMN SSSR V.N. Chernigovskim.

(HESUSCITATION exper.)
(HEMORRHAGE exper.)
(HYPOTHERMIA, INDUCED exper.)

SOBOLEVA, V.I., kand.med.nauk

A study of terminal states under experimental and clinical conditions.
Vest. AMN SSSR 15 no.9:83-86 '60. (MIRA 13:11)

1. Laboratoriya eksperimental noy fiziologii po ozhivleniyu organizma
AMN SSSR. (DEATH) (RESUSÇITATION)

NEGOVSKIY, V.A.; SOBOLEVA, V.I.; GURVICH, N.L.; KISELEVA, K.S.

Restoration of the vital functions of the organism following 2 hours of clinical death under deep hypothermia; preliminary report. Vest. AMN SSSR 15 no. 10:40-44 160. (MIRA 14:4)

l. Laboratoriya eksperimental'noy fiziologii po ozhivleniyu organizma AMN SSR_{\bullet}

(RESUSCUTATION) (HYPOTHERMIA)

1,1513

27,2300

S/219/62/054/010/001/004 D296/D307

AUTHORS:

Soboleva, V.I., Semenov, N.V. and Gorokhovskiy, B.O.

TITLE:

Restoration of the vital functions in animals after prolonged clinical death under conditions

of localized hypothermia in the brain

PERIODICAL:

Akademiya meditsinskikh nauk SSSR, Byulleten' eksperimental'noy biologii i meditsiny, v. 54, no. 10, 1962, 33 - 36

TEXT: Resuscitation is still possible after clinical death lasting 30 - 60 min, provided the body temperature is lowered to 26 - 20°C. Severe circulatory disorders and ventricular fibrillation are, however, frequent complications of this technique. It was assumed that hypothermia confined to the brain would prolong the period of cerebral anoxia after which successful resuscitation was still possible, without impairment of the cardiac function. After injection of pantopon and atropine the carotid and the femoral arteries were laid bare in 15 dogs under local anaesthesia. The left

Card 1/3

S/219/62/054/010/001/004
Restoration of the vital functions ... D296/D307

carotid artery was transsected and the blood flowing from the lower stump was diverted through a spiral tube surrounded by ice and then led back through the upper stump into the brain. The right carotid artery was clamped off. In 8 dogs the fall in the brain temperature was measured directly by thermoelements inserted through trepanation holes. When the rectal temperature had reached 32.9 - 29.5°C clinical death was induced by bleeding from the femoral artery. Resuscitation was begun in 9 dogs after 30 min and in 6 dogs after 60 min by means of intra-arterial blood transfusion and with the aid of a respirator. Ventricular fibrillation developed in 13 out of 15 dogs, i.e. just as frequently as in the control dogs exposed to total body hypothermia. In general the resuscitation was much less successful than in the control dogs. After a state of clinical death lasting 60 min none of the experimental dogs could be successfully resuscitated whereas 4 out of 7 control dogs could be fully revived. After clinical death lasting 30 min, only 3 out of 9 dogs could be resuscitated, compared to 8 out of 10 in the control animals. Autopsy revealed congestion of the brain and of the abdominal organs, multiple hemorrhages in the internal organs and occasionally pulmonary edema and thrombosis of the

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Restoration of the vital functions ... D296/D307

right auricle. The authors explain the poor results with the toxic effect of inadequately oxidized metabolic products accumulating in the rest of the body kept at relatively higher temperatures and with the increased permeability of the blood vessels: it was further assumed that the artificial perfusion of the brain caused direct damage to the nervous elements.

ASSOCIATION:

Laboratoriya eksperimental'noy fiziologii po ozhivleniyu organizma, AMN SSSR (Laboratory of Experimental Physiology for Resuscitation, AMS USSR) and Kafedra fiziologii kalininskogo meditsinskogo instituta (Department of Physiology, Kalinin Medical Institute)

SUBMITTED:

March 5, 1962

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SOBOLEVA, V.I. (Moskva)

Effect of general cooling and hibernation on the restoration of vital functions in animals subjected to clinical death from acute hemorrhage. Pat. fiziol. i eksp. terap. 6 no.1:28-33
Ja-F '62. (MIRA 15:3)

1. Iz laboratorii eksperimental'noy fiziologii po ozhivleniyu organizma (zav. - prof. V.A. Negovskiy) AMN SSSR.

(HYPOTHERMIA) (ARTIFICIAL HIBERNATION)

(DEATH, APPARENT) (HEMORRHAGE)

ACCESSION NR: AP4000269

\$/0219/63/056/011/0039/0043

AUTHOR: Negovskiy, V. A.; Soboleva, V. I.; Gurvich, N. L.; Kiseleva, K. S.

TITLE: Doep hypothermia as a method for prolonging clinical death periods

SOURCE: Byulleten' eksperimental'noy biologii i meditsiny*, v. 56, no. 11, 1963, 39-43

TOPIC TAGS: hypothermia, clinical death, resuscitation process, resuscitation process inhibitor, loss of blood, blood loss, acute blood loss, blood infusion, intraarterial infusion, intraarterial blood infusion, blood perfusion, heart dilation, hemodynamic disturbance, metabolic acidosis

ABSTRACT: In two groups of experimental dogs body temperature was reduced to 20-23°C and venesection was performed to induce clinical death. Animals were revived after clinical death of two hours with heat, blood perfusion, artificial respiration, defibrillation, and heart stimulation. Electrocardiograms were recorded during the entire experiment. In the first group of 23 dogs only 5 animals survived Cord1/2

ACCESSION NR: AP4000269

clinical death with complete restoration of their vital functions. All other animals in this group either died within 2 days after the experiment or failed to revive at all. Resuscitation failure was attributed to imperfect blood perfusion causing acute heart dilation, marked hemodynamic disorders during restoration period, and severe acidosis inhibiting further restoration and leading to serious changes in the brain and internal organs. These factors were controlled in reviving the second group of 8 dogs, and fresh donor blood and blood substitution were also used in the later stages of revival. All 8 animals were revived and vital functions were completely restored in 5 of the animals. Thus, under deep hypothermia clinical death can be prolonged to 2 hrs with subsequent complete restoration of vital functions. Orig. art. has: none.

ASSOCIATION: Laboratoriya eksperimental noy fiziologii po ozhivleniyu organisma, AMN SSSR, Moskva (Experimental Physiology Laboratory for Organism Revival, AMN SSSR)

SUBMITTED: 21Jun63

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Card2/2

NO REF SOV: 006

OTHER: 012

NEGOVSKIY, V.A.; SOBOLEVA, V.I.; GURVICH, N.L.; KISELEVA, K.S.

Deep hypothermia as a method of prolonging clinical death periods. Biul. eksp. biol. i med. 56 nc.11:39-43 0 [i.e.N.] '63. (MIRA 17:11)

1. Iz laboratorii eksperimental'noy fiziologii po ozhivleniyu organizma (zav. - prof. V.A. Negovskiy) AMN SSSR, Moskva. Predstavlena deystvitel'nym chlenom AMN SSSR V.V. Parinym.

Antibiotic therapy of whooping cough. Sov. med. 18 no.8:22-24 Ag '54.

(MIRA 7:8)

1. Iz infektsionnogo otdela(nauchnyy rukovoditel'-chlen korrespondent Akademii meditsinskikh nauk SSSR prof. A.I.Dobrokhotova) Instituta pediatrii Akademii meditsinskikh nauk SSSR (dir.-prof. M.N.Kazantseva) na baze vtoroy klinicheskoy bol'nitsy imeni Rusakova (glavnyy vrach zasluzhennyy vrach RSFSR V.A.Kruzhkov)

(WHOOPING COUGH, therapy (ANTIBIOTICS, ther. use antibiotics) whooping cough)

5/136/60/000/06/012/026 E073/E435

AUTHOR:

TITLE:

Soboleva, V.M.

Application of Indium and its Alloys as Semiconductor

Materials

PERIODICAL: Tsvetnyye metally, 1960, Nr 6, pp 46-50 (USSR)

Published material does not provide sufficient ABSTRACT:

information on the techniques of obtaining indium alloys, particularly for semiconductor use. The author was concerned with the development of the techniques for manufacturing such alloys. About forty different indium-base alloys were prepared with compositions as given in the Table, p 46. As starting materials, indium,

gallium, antimony and zinc, all of 99.999% purity, aluminium of 99.996% purity and gold and silver of 99.99% purity were used. Earlier, indium alloys were produced by fusing the individual elements inside

evacuated quartz ampoules with charges weighing between 20 and 200 g. Since the required quantities of these

materials are continuously increasing, the author experimented with larger charges and teeming the molten

material into ingots; this resulted in a better Card 1/3

S/136/60/000/06/012/026 E073/E435

Application of Indium and its Alloys as Semiconductor Materials

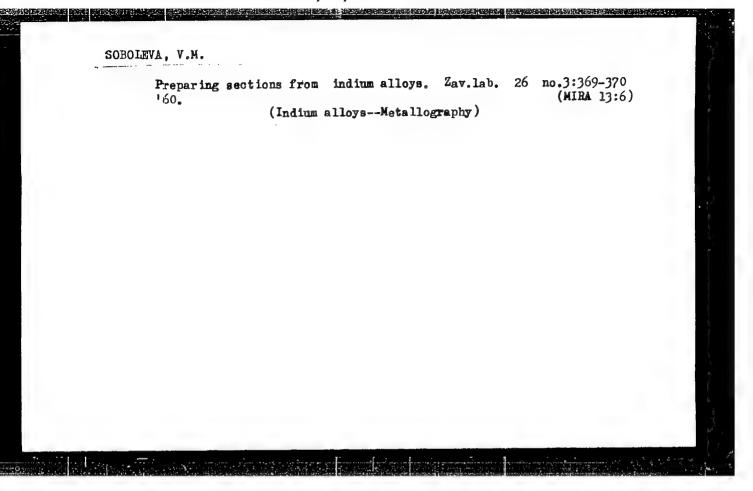
distribution of the alloying elements. The results of quantitative spectrum analysis for an In-Ga (0.5% Ga) alloy and for an In-Zn (1% Zn) alloy are entered in the Table, p 47. Of particular interest are In-Sb-Ga alloys (5% Sb and 0.5% Ga) and In-Sb-Au-Ga alloys (5% Sb, 7% Au and 0.5% Ga), which are used as emitters for germanium triodes. For smelting such alloys in ampoules, special equipment was designed. For the purpose of obtaining a finer structure, the melt is subjected to a rotary movement and also an oscillatory movement in the vertical direction whereby the speed of rotation and the frequency of the oscillations are controlled by a laboratory rheostat. A sketch of this equipment is shown in Fig 1. The results of the chemical analysis showed that in the thus produced In-Sb-Ga alloy the antimony distribution is uniform. Fig 2 and 3 show the crystallization curves of the In-Ga (0.5% Ga) and In-Zn (3% Zn) alloys, respectively. Fig 4, 5 and 6 show micro-structure photographs of the produced

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E073/E435

Application of Indium and its Alloys as Semiconductor Materials
In-Sb-Au-Ga alloy (5% Sb, 7% Au and 0.5% Ga).
There are 6 figures and 2 tables.

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SOBOLEVA, V.M.; LIKHTMAN, A.Ye.

"Micrometallurgy" of alloys for semiconductor devices. TSvet.
met. 35 no.9:70-73 S '62. (MIRA 16:1)

(Semiconductors—Analysis)

ROZOVSKAYA, Ye.S.; SIMON, I.B.; VVEDENSKIY, V.P.; SOBOLEVA, V.M.

Synthesis and the pharmacological properties of some salts of bromine derivatives of benzyldimethylethylammonium. Trudy Ukr. nauch.-izzl. inst. eksper. endok. 19:404-417 164. (MIRA 18:7)

l. Iz otdela khimii gormonov Ukrainskogo instituta eksperimental'noy endokrinologii i kursa farmakologii Khar'kovskogo meditsinskogo stomatologicheskogo instituta.

Clinical aspects and diagnosis of stalolithrasis. Frobl. chel.-lits.
Ehir. no.1:153-156 '65.

(MIRA 18:10)

YAKERIN, E.Ya.; SOBELEVA, V.H.

Mineralogical composition of Apt and Alba sediments in the
Tuarkyr region. Trudy VREGEI 109:232-237 '63. (MIRA 17:7)

MAZURKEVICH, Nikolay Stepanovich [Mazurkevych, M.S.]; SUBOLEVA, V.P., red.; MOROZKO, L.G., tekha. red.

[Maintenance of swine in outdoor runs in summer field bases]
Vil'no-vyhul'noe utrymannia svynei v taborakh. Kyiv, Kyivs'ke, obl. knyzhkovo-gazetne vyd-vo, 1963. 16 p. (MIRA 16:10)
(Swine)